

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/044,548	01/11/2002	Jin Wook Kim	2529-000075	9928
27572 75	90 02/18/2004		EXAMINER	
HARNESS, D	ICKEY & PIERCE, P.L.	KRISHNAMURTHY, RAMESH		
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER
			3753	0
			DATE MAILED: 02/18/2004	۵ /

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) Application	<u> </u>				IN
Examiner Ramesh Krishnamurthy 3753 -The MAILING DATE of this communication appears on the cover sheet with the correspondence address HE REPLY FILED 05 February 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. herefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a inal rejection under 37 CFR 1.133 may only be either; (1) a timely filed amendment which balees the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued examination (RCE) in compliance with 37 CFR 1.1144. PERIOD FOR REPLY (check either a) or b) The period for reply expires 2 months from the mailing date of the final rejection. PERIOD FOR REPLY (check either a) or b) The period for reply expires 2 months from the mailing date of the final rejection. ON Y CHECK THIS BOX WHEN THE ITER'S REPLY WAS FILED WITHIN TWO MONTHS 0FT THE FINAL REJECTION. See MPEP 706.07(7) Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee were been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee were been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee was been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee was been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee was been filed in the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee was been determed by the date of the corresponding amount of the fee. The appropriate extension fee was been determed by the corresponding and	Advisory Action		Application No.	Applicant(s)	
Examiner Ramesh Krishnamurthy 3753 The MAILING DATE of this communication appears on the cover sheet with the correspondence address HE REPLY FILED 05 February 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. herefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a main rejection under 37 CFR 1.13 may prilly be either. (1) a timely filled amendment which places the application in an arrived for the proper service of the final rejection. PERIOD FOR REPLY (check either a) or b)] 30			10/044,548	KIM, JIN WOOK	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address HE REPLY FILED 05 February 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to you'd abandonment of this application. A proper reply to a not rejection under 37 CFR 1.14 pt may grue be either. (1 a mee) filled amendment which places the application in condition for allowance; (2) a timely filed Motion of Appeal (with appeal fee); or (3) a timely filed Request for Continued examination (RCE) in compliance with 37 CFR 1.114. PERIOD FOR REPLY (check either a) or b)] 3)			Examiner	Art Unit	
HE REPLY FILED 05 February 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a intelligence of the proper reply at the proper reply to a intelligence of the proper reply and intelligence of the proper reply and intelligence of the proper reply expires and the proper reply expire later than SIX MONTHS from the mailing date of the final rejection. And the period for reply expires and the proper reply expire later than SIX MONTHS from the mailing date of the final rejection. Only CytelCY this BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS of THE FINAL REPLETION. See MPEP 708.07(f). Extension the major by obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the proproposed of determining the period of demonstrian and the corresponding amount of the few proprintee extension fee when the proper reply and the proper reply expire and the proper replace of the proper reply expire and the propers of the		•	Ramesh Krishnamurthy	3753	
Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a inial rejection under 37 CFR 1.113 may grip be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued examination (RCE) in compliance with 37 CFR 1.114. PERIOD FOR REPLY (check either a) or b) The period for reply expires 2 months from the mailing date of the final rejection. PERIOD FOR REPLY (check either a) or b) The period for reply expires 2 months from the mailing date of the Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In ne event, however, will the statutory period for reply expires and the corresponding date of the Advisory Action, or (2) the date set forth in the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee was been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee was been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee was been filed to the date for purposes of statutes previously set in the final direction, or (2) as set forth b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce an arrange patent term adjustment. See 37 CFR 1.746(a) the previous and adjustment see 37 CFR 1.136(a) and the appropriate extension fee was been adjusted as a set of the calculated from City and adjustment see 37 CFR 1.136(a) and the appropriate extension fee and an adjustment see 37 CFR 1.136(a) and a set of the calc	The MAILING E	DATE of this communication appe	ears on the cover sheet with the c	correspondence addi	ress
a) The period for reply expires ① months from the mailing date of the final rejection. The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 766.07(f). Exercisions of line may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee under 7 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth job. above, if Checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce an arrived patent term edjustment. See 37 CFR 1.704(b). A Notice of Appeal was filed on	Therefore, further action inal rejection under 37 C condition for allowance;	by the applicant is required to a CFR 1.113 may only be either: ((2) a timely filed Notice of Appe	avoid abandonment of this application appl	cation. A proper repict ich places the application.	oly to a cation in
the period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth the final rejection, whichever is later. In no event, however, with the statutory period for reply expire later than SIX MONTHS from the mailing date of their rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706,07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee acree been filled is the date for purposes of determining the period of extension and the corresponding amount of the fin appropriate extension fee users been filled is the date for purposes of determining the period of extension and the corresponding amount of the final Office actions, or (2) as set forth or 30 above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce an amend patent term adjustment. See 37 CFR 1.704(b). 1 A Notice of Appeal was filed on Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal. 2. ★ The proposed amendment(s) will not be entered because: (a) they raise new issues that would require further consideration and/or search (see NOTE below); (b) they raise the issue of new matter (see Note below); (c) ★ they are not deemed to place the application in better form for appeal by materially reducing or simplifying issues for appeal; and/or (d) they are not deemed to place the application in better form for appeal by materially reducing or simplifying issues for appeal; and/or (a) they are not deemed to place the application in better form for appeal by materially reducing or simplifying issues for appeal; and/or (b) they are not deemed to place the application in better form for appearance in the final rejection of the place is app		PERIOD FOR RE	EPLY [check either a) or b)]		
1. A Notice of Appeal was filed on Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal. 2. The proposed amendment(s) will not be entered because: (a) they raise new issues that would require further consideration and/or search (see NOTE below); (b) they raise the issue of new matter (see Note below); (c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying issues for appeal; and/or (d) they present additional claims without canceling a corresponding number of finally rejected claims. NOTE: 3 Applicant's reply has overcome the following rejection(s): 4 Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendme canceling the non-allowable claim(s) would be allowable if submitted in a separate, timely filed amendme canceling the non-allowable claim(s). 5 The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 6 The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection. 7 For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) withdrawn from consideration: Claim(s) withdrawn from consideration: Big The drawing correction filed on is a) approved or b) disapproved by the Examiner.	b) The period for reply event, however, will to ONLY CHECK THIS 706.07(f). Extensions of time may be ave been filed is the date for put 7 CFR 1.17(a) is calculated from	expires on: (1) the mailing date of this Adv the statutory period for reply expire later the S BOX WHEN THE FIRST REPLY WAS obtained under 37 CFR 1.136(a). The daturposes of determining the period of extention: (1) the expiration date of the shortened	visory Action, or (2) the date set forth in the nan SIX MONTHS from the mailing date of FILED WITHIN TWO MONTHS OF THate on which the petition under 37 CFR 1. It is sign and the corresponding amount of the distatutory period for reply originally set in	of the final rejection. IE FINAL REJECTION. S 136(a) and the appropriate extended to the final Office action; or the final Office action of the final Office action o	e extension fee ension fee under (2) as set forth in
37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal. 2. ☐ The proposed amendment(s) will not be entered because: (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below); (b) ☐ they raise the issue of new matter (see Note below); (c) ☐ they are not deemed to place the application in better form for appeal by materially reducing or simplifying issues for appeal; and/or (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims. NOTE: 3. ☐ Applicant's reply has overcome the following rejection(s): 4. ☐ Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendme canceling the non-allowable claim(s). 5. ☐ The al☐ affidavit, b) ☐ exhibit, or c) ☐ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection. 7. ☐ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) withdrawn from consideration: Claim(s) withdrawn from consideration: Big The drawing correction filed on is a) ☐ approved or b) ☐ disapproved by the Examiner.				•	
 (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below); (b) ☐ they raise the issue of new matter (see Note below); (c) ☒ they are not deemed to place the application in better form for appeal by materially reducing or simplifying issues for appeal; and/or (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims. NOTE: 3.☐ Applicant's reply has overcome the following rejection(s): 4.☐ Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendme canceling the non-allowable claim(s). 5.☒ The a)☐ affidavit, b)☐ exhibit, or c)☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 6.☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection. 7.☐ For purposes of Appeal, the proposed amendment(s) a)☐ will not be entered or b)☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration: The drawing correction filed on is a)☐ approved or b)☐ disapproved by the Examiner. 9.☐ Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s) 		,,	•	•	
(b) ☐ they raise the issue of new matter (see Note below); (c) ☒ they are not deemed to place the application in better form for appeal by materially reducing or simplifying issues for appeal; and/or (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims. NOTE: 3.☐ Applicant's reply has overcome the following rejection(s): 4.☐ Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendme canceling the non-allowable claim(s). 5.☒ The a)☐ affidavit, b)☐ exhibit, or c)☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 6.☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection. 7.☐ For purposes of Appeal, the proposed amendment(s) a)☐ will not be entered or b)☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration: 8.☐ The drawing correction filed on is a)☐ approved or b)☐ disapproved by the Examiner. 9.☐ Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)	2.⊠ The proposed ame	endment(s) will not be entered b	pecause:		
(c) ⊠ they are not deemed to place the application in better form for appeal by materially reducing or simplifying issues for appeal; and/or (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims. NOTE: 3. ☐ Applicant's reply has overcome the following rejection(s): 4. ☐ Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendme canceling the non-allowable claim(s). 5. ☒ The a) ☐ affidavit, b) ☐ exhibit, or c) ☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection. 7. ☐ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration: 8. ☐ The drawing correction filed on is a) ☐ approved or b) ☐ disapproved by the Examiner. 9. ☐ Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)	(a) L they raise nev	w issues that would require furth	er consideration and/or search	(see NOTE below);	
issues for appeal; and/or (d)	(b) they raise the	issue of new matter (see Note	below);		
NOTE: 3. Applicant's reply has overcome the following rejection(s): 4. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendme canceling the non-allowable claim(s). 5. The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 6. The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection. 7. For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) withdrawn from consideration: The drawing correction filed on is a) approved or b) disapproved by the Examiner. 9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)	• •	• • • • • • • • • • • • • • • • • • • •	in better form for appeal by ma	terially reducing or s	implifying the
Applicant's reply has overcome the following rejection(s): Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendme canceling the non-allowable claim(s). The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection. For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) withdrawn from consideration: The drawing correction filed on is a) approved or b) disapproved by the Examiner.			ling a corresponding number of	finally rejected clair	ns.
canceling the non-allowable claim(s). The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection. For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration: The drawing correction filed on is a) approved or b) disapproved by the Examiner. Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s)			ction(s):		
application in condition for allowance because: See Continuation Sheet. 6. The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection. 7. For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) withdrawn from consideration: The drawing correction filed on is a) approved or b) disapproved by the Examiner. 9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)		· · · —	be allowable if submitted in a s	separate, timely filed	d amendment
raised by the Examiner in the final rejection. 7. For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration: 8. The drawing correction filed on is a) approved or b) disapproved by the Examiner. 9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)				sidered but does NC	OT place the
explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration: Claim(s) withdrawn from consideration: 8. The drawing correction filed on is a) approved or b) disapproved by the Examiner. 9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)			cause it is not directed SOLELY	f to issues which we	re newly
Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration: Claim(s) withdrawn from consideration: 8. The drawing correction filed on is a) approved or b) disapproved by the Examiner. 9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)					and an
Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration: 8. The drawing correction filed on is a) approved or b) disapproved by the Examiner. 9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)	The status of the	claim(s) is (or will be) as follows	:		
Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration: 8. The drawing correction filed on is a) approved or b) disapproved by the Examiner. 9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)	Claim(s) allowed:	·			
Claim(s) withdrawn from consideration: 8. The drawing correction filed on is a) approved or b) disapproved by the Examiner. 9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)	Claim(s) objected	I to:			
8.☐ The drawing correction filed on is a)☐ approved or b)☐ disapproved by the Examiner. 9.☐ Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)	Claim(s) rejected	;			
9.☐ Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)	Claim(s) withdraw	vn from consideration:			
9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s) 10. Other: RISHNAMURTH	8. The drawing corre	ection filed on is a) app	proved or b) disapproved by	the Examiner.	
10. Other: RAMESH KNISHNAMURTH	9. Note the attached	Information Disclosure Stateme	ent(s)(PTO-1449) Paper No(s).		010 -
´`3753 02/17/0u	10. Other:		RAME 3	mesh Knisha ISH KRISHN 753 0211	AMURTHY

Continuation of 5. does NOT place the application in condition for allowance because: The limitation pertaining to linear surface of pilot poppet is met by the prior art admitted to by the applicant.